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Cell Lines	
ATCC Number:	HB-253 Order this item
Designation:	GL1
Biosafety Level:	1 Shipped: frozen
Medium & Serum:	See Propagation
Organism:	<i>Rattus norvegicus</i> (B cell); <i>Mus musculus</i> (myeloma) (rat (B cell); mouse (myeloma))
Tissue:	B lymphocyte; hybridoma
Cellular Products:	immunoglobulin; monoclonal antibody; against mouse B7-2 antigen
Permits/Forms:	In addition to the MTA mentioned above, other ATCC and/or regulatory permits may be required for the transfer of this ATCC material. Anyone purchasing ATCC material is ultimately responsible for obtaining the permits. Please click here for information regarding the specific requirements for shipment to your location.
Related Cell Culture Products	
Comments:	Animals were immunized with LPS activated DBA/2J mouse B cells. Spleen cells were fused with Sp2/0-Ag14 myeloma cells. The antibody reacts with the B7-2 (GL1) antigen present on activated mouse B cells. The B7-2 antigen is a ligand for CTLA-4 (T cell activation molecule). B7-2 shows minimal expression on unstimulated B cells, but is expressed at high density on activated B cells. It is distinct from B7-1 (previously referred to as B7).
Propagation:	ATCC medium: RPMI 1640 medium with 1% nonessential amino acids and 0.05 mM 2-mercaptoethanol, 90%; fetal bovine serum, 10%
Subculturing:	Cultures can be maintained by addition or replacement of fresh medium. Start cultures at 2×10^5 cells/ml and maintain between 1×10^5 and 1×10^6 cells/ml.
Fluid Renewal:	Every 2 to 3 days
Freeze	Culture medium, 95%; DMS , 5%

Medium:	
References:	<p>22963: Hathcock KS, et al. Identification of an alternative CTLA-4 ligand costimulatory for T cell activation. <i>Science</i> 262: 905-907, 1993. PubMed: 7694361.</p> <p>22964: Freeman GJ, et al. Uncovering of functional alternative CTLA-4 counter-receptor in B7-deficient mice. <i>Science</i> 262: 907-909, 1993. PubMed: 7694362.</p> <p>32831: Hancock WW, et al. Costimulatory function and expression of CD40 ligand, CD80, and CD86 in vascularized murine cardiac allograft rejection. <i>Proc. Natl. Acad. Sci. USA</i> 93: 13967-13972, 1996. PubMed: 8943044.</p> <p>41516: Freeman GJ, et al. Cloning of B7-2: a CTLA-4 counter-receptor that costimulates human T cell proliferation. <i>Science</i> 262: 909-911, 1993. PubMed: 7694363.</p>

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ATCC Number:	CRL-2223	Order this item	Price:	\$283.00
Designation:	1G10		Depositors:	S. Buchholz
<u>Biosafety Level:</u>	1	Shipped: frozen	Isotype:	IgG2a
Medium & Serum:	See Propagation		Growth Properties:	suspension
Organism:	<i>Rattus norvegicus</i> (B cell); <i>Mus musculus</i> (myeloma) (rat (B cell); mouse (myeloma))		Morphology:	lymphoblast
Tissue:	B lymphocyte; hybridoma			
Cellular Products:	immunoglobulin; monoclonal antibody; against mouse B7.1			
Permits/Forms:	In addition to the MTA mentioned above, other ATCC and/or regulatory permits may be required for the transfer of this ATCC material. Anyone purchasing ATCC material is ultimately responsible for obtaining the permits. Please click here for information regarding the specific requirements for shipment to your location.			
Related Cell Culture Products				
Comments:	Animals were immunized in the hind footpad with irradiated 5C2 mouse B cell lymphoma cells that had been cultured in the presence of dibutyryl-cAMP. Popliteal lymph node cells were fused with Sp2/0-Ag14 myeloma cells. The antibody will neutralize the B7.1 antigen, but does not react with the B7.2 antigen.			
Propagation:	ATCC medium: Iscove's modified Dulbecco's medium with 0.05 mM 2-mercaptoethanol, 90%; fetal bovine serum, 10%			
Subculturing:	Cultures can be maintained by addition or replacement of fresh medium. Start cultures at 0.5 X 10 ⁵ to 1 X 10 ⁵ cells/ml and maintain between 1 X 10 ⁵ and 1 X 10 ⁶ cells/ml.			
Fluid Renewal:	Every 2 to 3 days			
Freeze Medium:	Culture medium, 95%; DMS , 5%			
References:	<p>22286: Powers GD, et al. Expression and functional analysis of murine B7 delineated by a novel monoclonal antibody. Cell. Immunol. 153: 298-311, 1994. PubMed: 7509723</p> <p>22935: Nabavi N, et al. Signalling through the MHC class II cytoplasmic domain is required for</p>			

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antigen presentation and induces B7 expression. Nature 360: 263-268, 1992. PubMed: [1279442](#)
[23485](#): Chen C, et al. Monoclonal antibody 2D10 recognizes a novel T cell costimulatory molecule on
activated murine B lymphocytes. J. Immunol. 152: 2105-2114, 1994. PubMed: [7510738](#)

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ATCC Number:	CRL-2226	Order this item	Price:	\$283.00
Designation:	2D10		Depositors:	S. Buchholz
<u>Biosafety Level:</u>	1	Shipped: frozen	Isotype:	IgG2b
Medium & Serum:	See Propagation		Growth Properties:	suspension
Organism:	<i>Rattus norvegicus</i> (B cell); <i>Mus musculus</i> (myeloma) (rat (B cell); mouse (myeloma))		Morphology:	lymphoblast
Tissue:	B lymphocyte; hybridoma			
Cellular Products:	immunoglobulin; monoclonal antibody; against mouse B7.2			
Permits/Forms:	In addition to the MTA mentioned above, other ATCC and/or regulatory permits may be required for the transfer of this ATCC material. Anyone purchasing ATCC material is ultimately responsible for obtaining the permits. Please click here for information regarding the specific requirements for shipment to your location.			
Related Cell Culture Products				
Comments:	Animals were immunized in the hind footpad with irradiated 5C2 mouse B cell lymphoma cells that had been cultured in the presence of dibutyryl-cAMP. Popliteal lymph node cells were fused with Sp2/0-Ag14 myeloma cells. The antibody will neutralize the B7.2 antigen, but does not react with the B7.1 antigen.			
Propagation:	ATCC medium: Iscove's modified Dulbecco's medium with 0.05 mM 2-mercaptoethanol, 90%; fetal bovine serum, 10% Temperature: 37.0 C			
Subculturing:	Cultures can be maintained by addition or replacement of fresh medium. Start cultures at 0.5 X 10 ⁵ to 1 X 10 ⁶ cells/ml and maintain between 1 X 10 ⁵ and 1 X 10 ⁶ cells/ml.			
Fluid Renewal:	Every 2 to 3 days			
Freeze Medium:	Culture medium, 95%; DMSO, 5%			
References:	22286 : Powers GD, et al. Expression and functional analysis of murine B7 delineated by a novel monoclonal antibody. Cell. Immunol. 153: 298-311, 1994. PubMed: 7509723			

22935: Nabavi N, et al. Signalling through the MHC class II cytoplasmic domain is required for antigen presentation and induces B7 expression. Nature 360: 266-268, 1992. PubMed: 1279442
23485: Chen C, et al. Monoclonal antibody 2D10 recognizes a novel T cell costimulatory molecule on activated murine B lymphocytes. J. Immunol. 152: 2105-2114, 1994. PubMed: 7510738

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ATCC Number: HB-301 Order this Item		Price: \$283.00
Designation: 16-10A1	Depositors: H. Reiser B. Janicki	
Biosafety Level: 1	Shipped: frozen	Isotype: IgG
Medium & Serum: See Propagation	Growth Properties: suspension	
Organism: hamster (B cell); mouse (myeloma)	Morphology: lymphoblast	
Tissue: B lymphocyte; hybridoma		
Cellular Products: immunoglobulin; monoclonal antibody; against murine CD80 (B7-1)		
Permits/Forms: In addition to the MTA mentioned above, other ATCC and/or regulatory permits may be required for the transfer of this ATCC material. Anyone purchasing ATCC material is ultimately responsible for obtaining the permits. Please click here for information regarding the specific requirements for shipment to your location.		
<u>Related Cell Culture Products</u>		
Comments:	Animals were immunized with CD80 transfected CHO cells. Spleen cells were fused with P3X63Ag8.653 myeloma cells. The antibody reacts with and blocks the costimulatory activity of CD80. It does not affect the activity of CD86 (B7-2).	
Propagation:	ATCC medium: Dulbecco's modified Eagle's medium with 4 mM L-glutamine adjusted to contain 1.5 g/L sodium bicarbonate and 4.5 g/L glucose, 80%; fetal bovine serum, 20%	
Subculturing:	Cultures can be maintained by addition or replacement of fresh medium. Start cultures at 2 X 10 exp5 cells/ml and maintain between 1 X 10 exp5 and 1 X 10 exp6 cells/ml.	
Fluid Renewal:	Every 2 to 3 days	
Freeze Medium:	Culture medium, 95%; DMS , 5%	
References:	22480 : Razi-Wolf Z, et al. Expression and function of the costimulatory molecule B7 on murine Langerhans cells: evidence for an alternative CTLA-4 ligand. Eur. J. Immunol. 24: 805-811, 1994. PubMed: 7512030 23330 : Razi-Wolf Z, et al. Expression and function of the murine B7 antigen, the major costimulatory	

molecule expressed by peritoneal exudate cells. Proc. Natl. Acad. Sci. USA 89: 4210-4214, 1992. PubMed: 1373896
23540 : Razi-Wolf Z, et al. Evidence for an additional ligand, distinct from B7, for the CTLA-4 receptor. Proc. Natl. Acad. Sci. USA 90: 11182-11186, 1993. PubMed: 7504299

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Cell Culture	
ATCC Number:	HB-304 Order this item
Price:	\$215.00
Designation:	UC10-4F10-11
Biosafety Level:	1
Shipped:	frozen
Isotype:	IgG
Medium & Serum:	See Propagation
Growth Properties:	suspension
Organism:	hamster (B cell); mouse (myeloma)
Morphology:	lymphoblast
Tissue:	B lymphocyte; hybridoma
Cellular Products:	immunoglobulin; monoclonal antibody; against mouse CTLA-4
Permits/Forms:	In addition to the MTA mentioned above, other ATCC and/or regulatory permits may be required for the transfer of this ATCC material. Anyone purchasing ATCC material is ultimately responsible for obtaining the permits. Please click here for information regarding the specific requirements for shipment to your location.
Related Cell Culture Products	
Comments:	The UC10-4F10-11 hybridoma cell line was produced by fusing Sp2/0-Ag14 myeloma cells with spleen cells from an Armenian hamster that had been immunized with the extracellular portion of murine CTLA-4 fused to a murine IgG2a. The antibody can be used to detect and quantitate CTLA-4 expression by flow cytometric analysis, and can be used to immunoprecipitate the antigen from CTLA-4 positive cells. Under conditions of suboptimal T cell receptor (TCR) stimulation, whole antibody or Fab fragments from 4F10 can augment T cell proliferation in allogeneic mixed lymphocyte reactions. However, when optimal TCR stimulation is present, 4F10 can suppress T cell proliferation.
Propagation:	ATCC medium: Dulbecco's modified Eagle's medium with 4 mM L-glutamine adjusted to contain 1.5 g/L sodium bicarbonate and 4.5 g/L glucose and supplemented with 0.01 mM nonessential amino acids and 0.05 mM 2-mercaptoethanol, 90%; fetal bovine serum, 10% Temperature: 37.0 C
Subculturing:	Cultures can be maintained by the addition of fresh medium or replacement of medium. Alternatively, cultures can be established by centrifugation with subsequent resuspension at 1 to 2 X 10 ⁵ viable cells/ml. Maintain cell density between 1 X 10 ⁵ and 1 X 10 ⁶ viable cells/ml.
Fluid Renewal:	Add fresh medium every 2 to 3 days (depending on cell density)

Freeze Medium:	Culture medium, 95%; DMS , 5%
Related Products:	Recommended medium (without the additional supplements or serum described under ATCC Medium) - ATCC 30-2002 recommended serum - ATCC 30-2020
References:	34484 : Walunas TL, et al. CTLA-4 can function as a negative regulator of T cell activation. Immunity 1: 405-413, 1994. PubMed: 7882171

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ATCC Number:	HB-11341	Order this item	Price:	\$283.00
Designation:	B7-24-E1G4 [CMCC 11060]		Depositors:	Chiron Corp.
<u>Biosafety Level</u> :	1		Shipped:	frozen
Medium & Serum:	See Propagation			
Organism:	Mus musculus (B cell); Mus musculus (myeloma) (mouse (Bcell); mouse (myeloma))		Morphology:	lymphoblast
Tissue:	B lymphocyte; hybridoma			
Permits/Forms:	In addition to the MTA mentioned above, other ATCC and/or regulatory permits may be required for the transfer of this ATCC material. Anyone purchasing ATCC material is ultimately responsible for obtaining the permits. Please click here for information regarding the specific requirements for shipment to your location.			
This material is cited in a U.S. and/or other Patent or Patent Application, and may not be used to infringe on the patent claims.				
Related Cell Culture Products				
Comments:	Animals were immunized with SF9 insect cells expressing recombinant human B7. Spleen cells were fused with Sp2/0 myeloma cells.			
Propagation:	ATCC medium: Iscove's modified Dulbecco's medium with 4 mM L-glutamine adjusted to contain 1.5 g/L sodium bicarbonate supplemented with 1% OPI (0.15 mg/ml oxaloacetate, 0.05 mg/ml pyruvate, 0.0082 mg/ml bovine insulin), 90%; heat-inactivated fetal bovine serum, 10% Temperature: 37.0 C			
Subculturing:	Cultures can be maintained by addition of fresh medium or replacement of medium. Alternatively, cultures can be established by centrifugation with subsequent resuspension in fresh medium at 2-3 x 10 exp5 viable cells/ml. Maintain cell density between 2 X 10 exp5 and 1 X 10 exp6 viable cells/ml.			
Fluid Renewal:	Add fresh medium every 2 to 3 days (depending on cell density)			
Freeze Medium:	growth medium, 90%; DMS , 10%			
References:	40220; de Boer M, Conroy LB . Anti-CD40 monoclonal antibodies capable of blocking B-cell			

activation. US Patent 5,677,165 dated Oct 14 1997

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ATCC Number: HB-10916 <input type="button" value="Order this item"/>		Price: \$283.00
Designation: 5c8	Depositors: Trustees of Columbia University	
Biosafety Level: 1	Shipped: frozen	Isotype: IgG2a
Medium & Serum: See Propagation	Growth Properties: suspension	
Organism: <i>Mus musculus</i> (B cell); <i>Mus musculus</i> (myeloma) (mouse (Bcell); mouse (myeloma))	Morphology: lymphoblast	
Tissue: B lymphocyte; hybridoma		
Cellular Products: immunoglobulin; monoclonal antibody; against T-B activating molecule T-BAM, ligand for CD40 (CD40L, CD154)		
Permits/Forms: In addition to the MTA mentioned above, other ATCC and/or regulatory permits may be required for the transfer of this ATCC material. Anyone purchasing ATCC material is ultimately responsible for obtaining the permits. Please click here for information regarding the specific requirements for shipment to your location.		
This material is cited in a U.S. and/or other Patent or Patent Application, and may not be used to infringe on the patent claims.		
Related Cell Culture Products		
Comments:	Animals were immunized with D1.1 cells (see ATCC CRL-10915). Spleen cells were fused with Sp2/0 myeloma cells. The antibody recognizes an antigen present on T cells that is important to the T cell mediated activation of B cells. The antigen is a ligand for the CD40 molecule on the B cell surface.	
Propagation:	ATCC medium: Dulbecco's modified Eagle's medium with 4.5 g/L glucose, 4 mM L-glutamine, 1 mM sodium pyruvate, 50 units/ml penicillin and 0.05 mg/ml streptomycin, 90%; fetal bovine serum, 10%	
Subculturing:	Cultures can be maintained by addition or replacement of fresh medium. Start cultures at 2 X 10 exp5 cells/ml and maintain between 1 X 10 exp5 and 1 X 10 exp6 cells/ml.	
Fluid	Every 2 to 3 days	

Renewal:	
References:	22085 : Lederman S, et al. Murine monoclonal antibody (5c8) recognizes a human glycoprotein on the surface of T-lymphocytes, compositions containing same. US Patent 5,474,771 dated Dec 12 1995

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ATCC Number:	HB-12055	Order this Item	Price:	\$283.00
Designation:	Hybridoma, hCD40L-M90 [M90]		Depositors:	Immunex Corporation
<u>Biosafety Level</u> :	1	Shipped: frozen	Isotype:	IgG1
Medium & Serum:	See Propagation		Growth Properties:	suspension
Organism:	<i>Mus musculus</i> (B cell); <i>Mus musculus</i> (myeloma) (mouse (Bcell); mouse (myeloma))		Morphology:	lymphoblast
Tissue:	B lymphocyte; hybridoma			
Cellular Products:	immunoglobulin; monoclonal antibody; against human CD40 ligand (CD154, CD40L)			
Permits/Forms:	In addition to the MTA mentioned above, other ATCC and/or regulatory permits may be required for the transfer of this ATCC material. Anyone purchasing ATCC material is ultimately responsible for obtaining the permits. Please click here for information regarding the specific requirements for shipment to your location.			
This material is cited in a U.S. and/or other Patent or Patent Application, and may not be used to infringe on the patent claims.				
Related Cell Culture Products				
Comments:	Animals were immunized with human CD40 ligand (CD154, CD40L). Spleen cells were fused with either Ag8.653 or NS1 mouse myeloma cells (the specific line used was not specified). The antibody recognizes the human CD40L polypeptide.			
Propagation:	ATCC medium: Dulbecco's modified Eagle's medium with 4 mM L-glutamine adjusted to contain 1.5 g/L sodium bicarbonate and 4.5 g/L glucose, 90%; fetal bovine serum, 10% Temperature: 37.0 C			
Subculturing:	Cultures can be maintained by the addition of fresh medium or replacement of medium. Alternatively, cultures can be established by centrifugation with subsequent resuspension at 1 X 10 ⁵ viable cells/ml. Maintain cell density between 1 X 10 ⁵ and 1 X 10 ⁶ viable cells/ml.			
Fluid	Every 2 to 3 days			

Renewal:	
Freeze Medium:	culture medium 95%; DMSO, 5%
Related Products:	Recommended medium (without the additional supplements or serum described under ATCC Medium) - ATCC 30-2002 recommended serum - ATCC 30-2020
References:	44212 : Armitage RJ, et al. Monoclonal antibodies to CD40 ligand, pharmaceutical composition comprising the same and hybridomas producing the same. US Patent 5,961,974 dated Oct 5 1999

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ATCC Number:	HB-12056	Order this item	Price:	\$283.00
Designation:	Hybridoma, hCD40L-M91 [M91]		Depositors:	Immunex Corporation
<u>Biosafety Level</u> :	1	Shipped:	frozen	Isotype:
				IgG1
Medium & Serum:	See Propagation		Growth Properties:	suspension
Organism:	<i>Mus musculus</i> (B cell); <i>Mus musculus</i> (myeloma) (mouse (Bcell); mouse (myeloma))		Morphology:	lymphoblast
Tissue:	B lymphocyte; hybridoma			
Cellular Products:	immunoglobulin; monoclonal antibody; against human CD40 ligand (CD154, CD40L)			
Permits/Forms:	In addition to the MTA mentioned above, other ATCC and/or regulatory permits may be required for the transfer of this ATCC material. Anyone purchasing ATCC material is ultimately responsible for obtaining the permits. Please click here for information regarding the specific requirements for shipment to your location.			
This material is cited in a U.S. and/or other Patent or Patent Application, and may not be used to infringe on the patent claims.				
Related Cell Culture Products				
Comments:	Animals were immunized with human CD40 ligand (CD154, CD40L). Spleen cells were fused with either Ag8.653 or NS1 mouse myeloma cells (the specific line used was not specified). The antibody recognizes the human CD40L polypeptide.			
Propagation:	ATCC medium: Dulbecco's modified Eagle's medium with 4 mM L-glutamine adjusted to contain 1.5 g/L sodium bicarbonate and 4.5 g/L glucose, 90%; fetal bovine serum, 10% Temperature: 37.0 C			
Subculturing:	Cultures can be maintained by the addition of fresh medium or replacement of medium. Alternatively, cultures can be established by centrifugation with subsequent resuspension at 1 to 2 X 10 ⁵ exp5 viable cells/ml. Maintain cell density between 1 X 10 ⁵ exp5 and 1 X 10 ⁶ exp6 viable cells/ml.			
Fluid	Every 2 to 3 days			

Renewal:	
Freeze Medium:	culture medium 95%; DMS , 5%
Related Products:	Recommended medium (without the additional supplements or serum described under ATCC Medium) - ATCC 30-2002 recommended serum - ATCC 30-2020
References:	44212 : Armitage RJ, et al. Monoclonal antibodies to CD40 ligand, pharmaceutical composition comprising the same and hybridomas producing the same. US Patent 5,961,974 dated Oct 5 1999

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ATCC Number:	HB-9110	Order this Item	Price:	\$215.00
Designation:	G28-5		Depositors:	Oncogen
<u>Biosafety Level</u> :	1	Shipped: frozen	Isotype:	IgG1
Medium & Serum:	See Propagation		Growth Properties:	suspension
Organism:	<i>Mus musculus</i> (B cell); <i>Mus musculus</i> (myeloma) (mouse (Bcell); mouse (myeloma))		Morphology:	lymphoblast
Tissue:	B lymphocyte; hybridoma			
Cellular Products:	immunoglobulin; monoclonal antibody; against Bp50 (CD40, human B cell antigen)			
Permits/Forms:	In addition to the MTA mentioned above, other ATCC and/or regulatory permits may be required for the transfer of this ATCC material. Anyone purchasing ATCC material is ultimately responsible for obtaining the permits. Please click here for information regarding the specific requirements for shipment to your location.			
This material is cited in a U.S. and/or other Patent or Patent Application, and may not be used to infringe on the patent claims.				
Related Cell Culture Products				
Comments:	Animals were immunized with human tonsillar lymphocytes. Spleen cells were fused with NS-1 myeloma cells. The antibody is specific for the Bp50 (CD40) B cell surface antigen. The antibody reacts specifically with CD20 positive (Bp35, B1) blood and tonsillar B cells, and does not react with T cells or NK cells. It does react with malignant B cells and B cell lines.			
Tumorigenic:	yes; forms ascites in pristane primed BALB/c mice			
Propagation:	ATCC medium: RPMI 1640 medium with 2 mM L-glutamine adjusted to contain 1.5 g/L sodium bicarbonate, 4.5 g/L glucose, 10 mM HEPES, and 1.0 mM sodium pyruvate, 90%; fetal bovine serum, 10% Temperature: 37.0 C			
Subculturing:	Cultures can be maintained by addition or replacement of fresh medium. Start cultures at 2 X 10			

	exp5 cells/ml and maintain between 1×10^5 and 1×10^6 cells/ml.
Fluid Renewal:	Every 2 to 3 days
Freeze Medium:	Culture medium, 95%; DMSO, 5%
Related Products:	Recommended medium (without the additional supplements or serum described under ATCC Medium) - ATCC 30-2001 recommended serum - ATCC 30-2020
References:	22015: Ledbetter JA, Clark EA. Ligands and methods for augmenting B-cell proliferation. US Patent 5,182,368 dated Jan 26 1993

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ATCC Number:	HB-9579	Order this item	Price:	\$283.00
Designation:	S6F1		Depositors:	Dana Farber Cancer Inst.
<u>Biosafety Level:</u>	1	Shipped: frozen	Isotype:	IgG1
Medium & Serum:	See Propagation		Growth Properties:	suspension
Organism:	<i>Mus musculus</i> (B cell); <i>Mus musculus</i> (myeloma) (mouse (Bcell); mouse (myeloma))		Morphology:	lymphoblast
Tissue:	B lymphocyte; hybridoma			
Cellular Products:	immunoglobulin; monoclonal antibody; against a subset of human CD8 (LFA-1) positive T cells			
Permits/Forms:	In addition to the MTA mentioned above, other ATCC and/or regulatory permits may be required for the transfer of this ATCC material. Anyone purchasing ATCC material is ultimately responsible for obtaining the permits. Please click here for information regarding the specific requirements for shipment to your location.			
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Related Cell Culture Products				
Comments:	Animals were immunized with the 1670 cell line produced by immortalizing spleen cells from a whitelip tamarin with Herpesvirus saimiri. Spleen cells were fused with P3/NSI/1-Ag4-1 myeloma cells. The antibody recognizes a subset of CD8 positive T cells that have cytotoxic effector activity. The S6F1 epitope is absent on CD8 positive suppressor cells.			
Propagation:	ATCC medium: Dulbecco's modified Eagle's medium with 4.5 g/L glucose, 2 mM L-glutamine, 0.1 mM hypoxanthine, and 0.032 mM thymidine, 80%; heat-inactivated fetal bovine serum, 10%; heat-inactivated horse serum, 10%			
Subculturing:	Cultures can be maintained by addition or replacement of fresh medium. Start cultures at 2 X 10 ⁵ cells/ml and maintain between 2 X 10 ⁵ and 1 X 10 ⁶ cells/ml.			
Fluid Renewal:	Every 2 to 3 days			

References:	21964 : Schlossman SF, Morimoto C . Monoclonal antibody specific to a novel epitope of the LFA-1 antigen of human T lymphocytes. US Patent 5,002,869 dated Mar 26 1991
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ATCC Number:	TIB-213	Order this item	Price:	\$283.00	
Designation:	FD441.8		Depositors:	D. Dialynas	
Biosafety Level:	1	Shipped:	frozen	Isotype:	IgG2b
Medium & Serum:	See Propagation		Growth Properties:	suspension	
Organism:	<i>Rattus norvegicus</i> (B cell); <i>Mus musculus</i> (myeloma) (rat (B cell); mouse (myeloma))		Morphology:	lymphoblast	
Tissue:	B lymphocyte; hybridoma				
Cellular Products:	immunoglobulin; monoclonal antibody; against LFA-1 (mouse cytotoxic T cell antigen)				
Permits/Forms:	In addition to the MTA mentioned above, other ATCC and/or regulatory permits may be required for the transfer of this ATCC material. Anyone purchasing ATCC material is ultimately responsible for obtaining the permits. Please click here for information regarding the specific requirements for shipment to your location.				
Related Cell Culture Products					
Comments:	Animals were immunized with cloned CTL B18 cells. Spleen cells were fused with Sp2/0-Ag14 myeloma cells. Tested and found negative for ectromelia virus (mousepox).				
Propagation:	ATCC medium: Dulbecco's modified Eagle's medium with 4.5 g/L glucose, 80%; fetal bovine serum, 20%				
Subculturing:	Cultures can be maintained by addition or replacement of fresh medium. Start cultures at 1 x 10 ⁵ cells/ml and maintain between 1 x 10 ⁵ and 1 x 10 ⁶ cells/ml.				
Fluid Renewal:	Every 2 to 3 days				
References:	993: Sanchez-Madrid F, et al. Mapping of antigenic and functional epitopes on the alpha-and beta-subunits of two related mouse glycoproteins involved in cell interactions, LFA-1 and MAC-1. J. Exp. Med. 158: 586-602, 1983. PubMed: 6193226 21878: Clark, W.R.; Goldstein, P., editor. Proceedings of the First International Cytolysis Workshop. 1982, p. 547. 58011: Sarmiento M, et al. Cloned T lymphocytes and monoclonal antibodies as probes for cell				

surface molecules active in T cell-mediated cytotoxicity. Immunol Rev. 68: 135-169, 1982. PubMed: 6184304

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ATCC Number:	CRL-1878	Order this item	Price:	\$283.00	
Designation:	YN1/1.7.4		Depositors:	F. Takei	
Biosafety Level:	1	Shipped:	frozen	Isotype:	IgG2b
Medium & Serum:	See Propagation		Growth Properties:	suspension	
Organism:	<i>Rattus norvegicus</i> (B cell); <i>Rattus norvegicus</i> (myeloma) (rat (B cell);rat (myeloma))		Morphology:	lymphoblast	
Tissue:	B lymphocyte; hybridoma				
Cellular Products:	immunoglobulin; monoclonal antibody; against murine ICAM-1 (ICAM 1, intercellular adhesion molecule)				
Permits/Forms:	In addition to the MTA mentioned above, other ATCC and/or regulatory permits may be required for the transfer of this ATCC material. Anyone purchasing ATCC material is ultimately responsible for obtaining the permits. Please click here for information regarding the specific requirements for shipment to your location.				
Related Cell Culture Products					
Comments:	<p>Animals were immunized with NS-1 mouse myeloma cells. Spleen cells were fused with Y3 rat myeloma cells. The antibody reacts with a 95000 to 100000 dalton antigen (ICAM-1) on activated and proliferating murine lymphocytes. The antibody partially inhibits Con A stimulation of spleen cells but does not inhibit LPS stimulation. The antibody strongly inhibits mixed lymphocyte responses (MLR). The ICAM-1 antigen is absent on most unstimulated thymocytes and spleen cells.</p>				
Propagation:	ATCC medium: Dulbecco's modified Eagle's medium with 4.5 g/L glucose, 90%; fetal bovine serum, 10%				
Subculturing:	Cultures can be maintained by addition or replacement of fresh medium. Start cultures at 2×10^5 cells/ml and maintain between 1×10^5 and 1×10^6 cells/ml.				
Fluid Renewal:	Every 2 to 3 days				

References:	1776: Takei F. Inhibition of mixed lymphocyte response by a rat monoclonal antibody to a novel murine lymphocyte activation antigen (MALA-2). J. Immunol. 134: 1403-1407, 1985. PubMed: 2981916
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ATCC Number:	HB-233	Order this item	Price:	\$283.00
Designation:	BE29G1		Depositors:	A.A. Brian
<u>Biosafety Level:</u>	1	Shipped: frozen	Isotype:	IgG2a
Medium & Serum:	<u>See Propagation</u>		Growth Properties:	suspension
Organism:	<i>Rattus norvegicus</i> (B cell); <i>Mus musculus</i> (myeloma) (rat (B cell); mouse (myeloma))		Morphology:	lymphoblast
Tissue:	B lymphocyte; hybridoma			
Cellular Products:	immunoglobulin; monoclonal antibody; against mouse ICAM-1 (intercellular adhesion molecule); CD54			
Permits/Forms:	In addition to the MTA mentioned above, other ATCC and/or regulatory permits may be required for the transfer of this ATCC material. Anyone purchasing ATCC material is ultimately responsible for obtaining the permits. Please click here for information regarding the specific requirements for shipment to your location.			
Related Cell Culture Products				

Comments:	Animals were immunized with ICAM-1 transfected FT16.I1 cells. Spleen cells were fused with P3X63Ag8.653 myeloma cells. The antibody blocks the binding of lymphocyte function antigen 1 (LFA-1, CD11a, CD18) to ICAM-1. The antibody is useful for studies of inflammation, lymphocyte differentiation and lymphocyte activation. It can be used for purification of ICAM-1 and for staining of cell surface ICAM-1 by flow cytometry.
Propagation:	ATCC medium: RPMI 1640 medium with 0.05 mM 2-mercaptoethanol, 90%; fetal bovine serum, 10%
Subculturing:	Cultures can be maintained by addition or replacement of fresh medium. Start cultures at 2 X 10 ⁵ cells/ml and maintain between 1 X 10 ⁵ and 1 X 10 ⁶ cells/ml.
Fluid Renewal:	Every 2 to 3 days
References:	23476 : Kuhlman P, et al. The accessory function of murine intercellular adhesion molecule-1 in T lymphocyte activation. <i>Contributions of adhesion and co-activation</i> . J. Immunol. 146: 1773-1782, 1991. PubMed: 1672331

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ATCC Number:	CRL-2252	Order this item	Price:	\$283.00
Designation:	G-3-5		Depositors:	S.K. Malhotra
<u>Biosafety Level</u> :	1		Isotype:	IgM
Medium & Serum:	See Propagation		Growth Properties:	suspension
Organism:	<i>Mus musculus</i> (B cell); <i>Mus musculus</i> (myeloma) (mouse (Bcell); mouse (myeloma))		Morphology:	lymphoblast
Tissue:	B lymphocyte; hybridoma			
Cellular Products:	immunoglobulin; monoclonal antibody; against alpha actinin			
Permits/Forms:	In addition to the MTA mentioned above, other ATCC and/or regulatory permits may be required for the transfer of this ATCC material. Anyone purchasing ATCC material is ultimately responsible for obtaining the permits. Please click here for information regarding the specific requirements for shipment to your location.			
Related Cell Culture Products				
Comments:	<p>Animals were immunized human brain homogenate of multiple sclerosis plaques obtained at autopsy.</p> <p>Spleen cells were fused with NS-1 myeloma cells.</p> <p>The antibody recognizes a novel intermediate filament associated protein (MW 100000) with similarity to alpha actinin.</p> <p>This antibody intensely stains astroglia and related macroglia in cryostat sections of human and rat central nervous system tissue.</p> <p>It is useful for immunofluorescence, immunocytochemistry, and Western blotting procedures.</p> <p>The G-3-5 cell line (ATCC CRL-2252) and the J1-31 cell line (ATCC CRL-2253) are distributed for research purposes only. S. Malhotra releases the line subject to the following: 1. The cells or their products must not be distributed to third parties. Commercial interests are the exclusive property of S. Malhotra. 2. Any proposed commercial use of these cells must first be negotiated with S. Malhotra at 1058 Eilinita Avenue, Glendale, California 91208. Tel./FAX: (818) 236-2878.</p>			
Propagation:	ATCC medium: RPMI 1640 medium, 90%; fetal bovine serum, 10%			
Subculturing:	Cultures can be maintained by addition or replacement of fresh medium. Start cultures at 0.5 X 10 ⁵ to 1 X 10 ⁶ exp5 cells/ml and maintain between 1 X 10 ⁵ exp5 and 1 X 10 ⁶ exp6 cells/ml.			

Fluid Renewal:	Every 2 to 3 days
Freeze Medium:	Culture medium, 95%; DMS , 5%
References:	<u>22389</u> : Jeffcoat S, et al. A novel intermediate filament-associated protein: further characterization of the G.3.5 antigen. Cytobios 82: 81-99, 1995. PubMed: <u>7587376</u> <u>22605</u> : Ann. N.Y. Acad. Sci. 436: 492-494, 1984. <u>22973</u> : Price KA, et al. Localization and characterization of an intermediate filament- associated protein. Cytobios 76: 157-173, 1993. PubMed: <u>8181306</u>

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ATCC Number:	TIB-237	Order this item	Price:	\$283.00
Designation:	M17/5.2		Depositors:	T.A. Springer
Biosafety Level:	1	Shipped: frozen	Isotype:	IgG2b; kappa light chain
Medium & Serum:	See Propagation		Growth Properties:	suspension
Organism:	<i>Rattus norvegicus</i> (B cell); <i>Mus musculus</i> (myeloma) (rat (B cell); mouse (myeloma))		Morphology:	lymphoblast
Tissue:	B lymphocyte; hybridoma			
Cellular Products:	immunoglobulin; monoclonal antibody; against mouse lymphocyte function antigen 1 (LFA-1, CD11a)			
Permits/Forms:	In addition to the MTA mentioned above, other ATCC and/or regulatory permits may be required for the transfer of this ATCC material. Anyone purchasing ATCC material is ultimately responsible for obtaining the permits. Please click here for information regarding the specific requirements for shipment to your location.			
Related Cell Culture Products				
Comments:	<p>Animals were immunized with mouse cytotoxic T lymphocytes (CTL). Spleen cells were fused with NS-1 myeloma cells. The antibody blocks CTL mediated cytotoxicity, and can be used to precipitate LFA-1 from lysates of CTLs.</p> <p>This line is subject to a license agreement between Harvard University and Boehringer Mannheim Biochemicals. Any use of the line for other than research purposes must be negotiated in advance with Harvard University.</p>			
Propagation:	ATCC medium: Dulbecco's modified Eagle's medium with 4.5 g/L glucose, 1 mM sodium pyruvate and 2 mM L-glutamine, 90%; fetal bovine serum, 10%			
Subculturing:	Cultures can be maintained by addition or replacement of fresh medium. Start cultures at 1×10^5 cells/ml and maintain between 1×10^5 and 1×10^6 cells/ml.			
Fluid Renewal:	Every 2 to 3 days			
References:	58014: Sanchez-Madrid F, et al. Antigens involved in mouse cytolytic T-lymphocyte (CTL)-mediated			

killing: function screening and topographic relationship. Cell. Immunol. 73: 1-11, 1982. PubMed: 6983917

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ATCC Number:	HB-202	Order this item	Price:	\$283.00
Designation:	TS1/22.1.1.13		Depositors:	T.A. Springer
<u>Biosafety Level</u> :	1	Shipped:	frozen	Isotype:
				IgG1
Medium & Serum:	See Propagation		Growth Properties:	suspension
Organism:	Mus musculus (B cell); Mus musculus (myeloma) (mouse (Bcell); mouse (myeloma))		Morphology:	lymphoblast
Tissue:	B lymphocyte; hybridoma			
Cellular Products:	immunoglobulin; monoclonal antibody; against lymphocyte function antigen 1 (LFA-1) alpha subunit (CD11a)			
Permits/Forms:	In addition to the MTA mentioned above, other ATCC and/or regulatory permits may be required for the transfer of this ATCC material. Anyone purchasing ATCC material is ultimately responsible for obtaining the permits. Please click here for information regarding the specific requirements for shipment to your location.			
Related Cell Culture Products				
Comments:	<p>Animals were immunized with human cytolytic T lymphocytes. Spleen cells were fused with P3X63Ag8.653 myeloma cells. The antibody will inhibit HLA DR mediated T cell cytotoxicity. The depositor states that the cell line should not be maintained in culture continuously for greater than four months or antibody production may be lost. Cloning and freezing of the cells after minimal passage (with selection of positive clones) will prevent loss of antibody producing cells. Tested and found negative for ectromelia virus (mousepox).</p>			
Propagation:	ATCC medium: Dulbecco's modified Eagle's medium with 4.5 g/L glucose, 1 mM sodium pyruvate and 2 mM L-glutamine, 90%; fetal bovine serum, 10%			
Subculturing:	Cultures can be maintained by addition or replacement of fresh medium. Start cultures at 2 X 10 ⁵ cells/ml and maintain between 1 X 10 ⁵ and 1 X 10 ⁶ cells/ml.			
Fluid Renewal:	Every 2 to 3 days			

References:	1616: Sanchez Madrid F, et al. Three distinct antigens associated with human T-lymphocyte-mediated cytotoxicity: LFA-1, LFA-2, and LFA-3. Proc. Natl. Acad. Sci. USA 79: 7489-7493, 1982. PubMed: 6984191
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ATCC Number:	HB-244	Order this item	Price:	\$283.00
Designation:	TS2/4.1.1		Depositors:	T.A. Springer
Biosafety Level:	1		Shipped:	frozen
Medium & Serum:	See Propagation		Growth Properties:	suspension
Organism:	Mus musculus (B cell); Mus musculus (myeloma) (mouse (Bcell); mouse (myeloma))		Morphology:	lymphoblast
Tissue:	B lymphocyte; hybridoma			
Cellular Products:	immunoglobulin; monoclonal antibody; against lymphocyte function antigen 1 (LFA-1) alpha subunit (CD11a)			
Permits/Forms:	In addition to the MTA mentioned above, other ATCC and/or regulatory permits may be required for the transfer of this ATCC material. Anyone purchasing ATCC material is ultimately responsible for obtaining the permits. Please click here for information regarding the specific requirements for shipment to your location.			
Related Cell Culture Products				
Comments:	Animals were immunized with human cytolytic T lymphocytes. Spleen cells were fused with NS-1 myeloma cells. The antibody does not inhibit LFA-1 activity, and can be used to purify functionally active LFA-1.			
Propagation:	ATCC medium: Dulbecco's modified Eagle's medium with 4.5 g/L glucose, 1 mM sodium pyruvate and 2 mM L-glutamine, 90%; fetal bovine serum, 10%			
Subculturing:	Cultures can be maintained by addition or replacement of fresh medium. Start cultures at 2 X 10 ⁵ cells/ml and maintain between 1 X 10 ⁵ and 1 X 10 ⁶ cells/ml.			
Fluid Renewal:	Every 2 to 3 days			
Freeze Medium:	Culture medium, 95%; DMSO, 5%			
References:	1616: Sanchez-Madrid F, et al. Three distinct antigens associated with human T-lymphocyte-mediated cytotoxicity: LFA-1, LFA-2, and LFA-3. Proc. Natl. Acad. Sci. USA 79: 7489-7493, 1982. PubMed: 6984191			

22361: Dustin L, et al. Regulation of locomotion and cell-cell contact area by the LFA-1 and ICAM-1 adhesion receptors. J. Immunol. 148: 2654-2663, 1992. PubMed: 1349320

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ATCC Number:	TIB-217	Order this item	Price:	\$283.00
Designation:	M17/4.4.11.9 (new clone of M17/4.2)		Depositors:	T.A. Springer
<u>Biosafety Level</u> :	1		Shipped:	frozen
Medium & Serum:	See Propagation		Growth Properties:	suspended
Organism:	<i>Rattus norvegicus</i> (B cell); <i>Mus musculus</i> (myeloma) (rat (B cell); mouse (myeloma))		Morphology:	lymphoblast
Tissue:	B lymphocyte; hybridoma			
Permits/Forms:	In addition to the MTA mentioned above, other ATCC and/or regulatory permits may be required for the transfer of this ATCC material. Anyone purchasing ATCC material is ultimately responsible for obtaining the permits. Please click here for information regarding the specific requirements for shipment to your location.			
Related Cell Culture Products				

Comments:	<p>Animals were immunized with cytotoxic T cells from C57BL/6 mice immunized with P815 cells. Spleen cells were fused with NS-1 myeloma cells.</p> <p>LFA-1 is a cell surface antigen found on cytolytic T lymphocytes.</p> <p>Monoclonal antibodies against LFA-1 can block killing by inhibiting the adhesion between cytolytic T cells and target cells.</p> <p>The LFA-1 and Mac-1 antigens are composed of two chains or subunits, alpha and beta.</p> <p>The beta chain of LFA-1 (Leukocyte Function Associated antigen) is immunologically identical to the beta chain of the Mac-1 antigen.</p> <p>The line was recloned by TA Springer in 1988, and a new seed stock was created at the ATCC.</p>
Propagation:	<p>ATCC medium: RPMI 1640 medium with 2 mM L-glutamine adjusted to contain 1.5 g/L sodium bicarbonate, 4.5 g/L glucose, 10 mM HEPES, and 1.0 mM sodium pyruvate and supplemented with 0.05 mM 2-mercaptoethanol, 90%; fetal bovine serum, 10%</p> <p>Temperature: 37.0 C</p>
Subculturing:	<p>Cultures can be maintained by addition or replacement of fresh medium. Start cultures at 5 x 10 exp4 cells/ml and maintain between 4 x 10 exp4 and 4 x 10 exp5 cells/ml.</p>
Fluid Renewal:	<p>Every 3 to 4 days</p>
Freeze Medium:	<p>culture medium, 92.5%; DMSO, 7.5%</p>

Related Products:	Recommended Medium (without the additional supplements or serum described under ATCC Medium) - ATCC 30-2001 recommended serum - ATCC 30-2020
References:	993 : Sanchez-Madrid F, et al. Mapping of antigenic and functional epitopes on the alpha-and beta-subunits of two related mouse glycoproteins involved in cell interactions, LFA-1 and MAC-1. J. Exp. Med. 158: 586-602, 1983. PubMed: 6193226 58014 : Sanchez-Madrid F, et al. Antigens involved in mouse cytolytic T-lymphocyte (CTL)-mediated killing: functional screening and topographic relationship. Cell. Immunol. 73: 1-11, 1982. PubMed: 6983917

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ATCC Number:	HB-203	Order this item	Price:	\$283.00
Designation:	TS1/18.1.2.11		Depositors:	T.A. Springer
Biosafety Level:	1	Shipped:	frozen	Isotype:
				IgG1
Medium & Serum:	See Propagation		Growth Properties:	suspended
Organism:	<i>Mus musculus</i> (B cell); <i>Mus musculus</i> (myeloma) (mouse (Bcell); mouse (myeloma))		Morphology:	lymphoblast
Tissue:	B lymphocyte; hybridoma			
Cellular Products:	immunoglobulin; monoclonal antibody; against lymphocyte function antigen 1 (LFA-1) beta subunit; against CD18			
Permits/Forms:	In addition to the MTA mentioned above, other ATCC and/or regulatory permits may be required for the transfer of this ATCC material. Anyone purchasing ATCC material is ultimately responsible for obtaining the permits. Please click here for information regarding the specific requirements for shipment to your location.			
Related Cell Culture Products				
Comments:	<p>Animals were immunized with human cytolytic T lymphocytes. Spleen cells were fused with P3X63Ag8.653 myeloma cells. The beta subunit of LFA-1 is a 95000 dalton polypeptide that is identical to the beta subunits of Mac-1 and the p150,95 antigens. The antibody will inhibit HLA DR mediated T cell cytotoxicity. The depositor states that the cell line should not be maintained in culture continuously for greater than four months or antibody production may be lost. Cloning and freezing of the cells after minimal passage (with selection of positive clones) will prevent loss of antibody producing cells. Tested and found negative for ectromelia virus (mousepox).</p>			
Propagation:	ATCC medium: Modified Dulbecco's medium, 90%; fetal bovine serum, 10% Temperature: 37.0 C			
Subculturing:	Cultures can be maintained by addition or replacement of fresh medium. Start cultures at 2 X 10 exp5 cells/ml and maintain between 1 X 10 exp5 and 1 X 10 exp6 cells/ml.			
Fluid				

Renewal:	Every 2 to 3 days
Freeze Medium:	culture medium, 95%; DMS , 5%
Related Products:	recommended serum - ATCC 30-2020 Recommended medium (without the additional supplements or serum described under ATCC Medium) - ATCC 46-X
References:	1616 : Sanchez-Madrid F, et al. Three distinct antigens associated with human T-lymphocyte-mediated cytotoxicity: LFA-1, LFA-2, and LFA-3. Proc. Natl. Acad. Sci. USA 79: 7489-7493, 1982. PubMed: 6984191 32897 : Zhang L, Plow EF . Overlapping, but not identical, sites are involved in the recognition of C3bi, neutrophil inhibitory factor, and adhesive ligands by the alpha M beta 2 integrin. J. Biol. Chem. 271: 18211-18216, 1996. PubMed: 8663418

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ATCC Number:	HB-226	<div>Order this item</div>	Price:	\$283.00
Designation:	2E6		Depositors:	R.M. Steinman
<u>Biosafety Level:</u>	1	Shipped: frozen	Isotype:	IgG
Medium & Serum:	<u>See Propagation</u>		Growth Properties:	suspension
Organism:	<i>Cricetulus migratorlus</i> (B cell); <i>Mus musculus</i> (myeloma) (hamster, Armenian (B cell); mouse (myeloma))		Morphology:	lymphoblast
Tissue:	B lymphocyte; hybridoma			
Cellular Products:	immunoglobulin; monoclonal antibody; against mouse beta 2 leukocyte integrins (CD18)			
Permits/Forms:	In addition to the <u>MTA</u> mentioned above, other ATCC and/or regulatory permits may be required for the transfer of this ATCC material. Anyone purchasing ATCC material is ultimately responsible for obtaining the permits. Please <u>click</u> here for information regarding the specific requirements for shipment to your location.			
<div>Related Cell Culture Products</div>				
Comments:	Animals were immunized with mouse dendritic cells. Spleen cells were fused with Sp2/0 myeloma cells. The antibody reacts precipitates a 150000/90000 dalton CD11/CD18 heterodimer (see also ATCC HB-225) from murine leukocytes. 2E6 blocks the binding function of LFA-1 (CD11a) and CR3/Mac-1 (CD11b).			
Propagation:	ATCC medium: RPMI 1640 medium with 0.05 mM 2-mercaptoethanol and 2 mM L-glutamine, 95%; fetal bovine serum, 5%			
Subculturing:	Cultures can be maintained by addition or replacement of fresh medium. Start cultures at 2 X 10 exp5 cells/ml and maintain between 1 X 10 exp5 and 1 X 10 exp6 cells/ml.			
Fluid Renewal:	Every 2 to 3 days			
References:	1793 : Metlay JP, et al. The distinct leukocyte integrins of mouse spleen dendritic cells as identified with new hamster monoclonal antibodies. J. Exp. Med. 171: 1753-1771, 1990. PubMed: 2185332			

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ATCC Number:	TIB-218	Order this item	Price:	\$283.00	
Designation:	M18/2.a.12.7 (new clone of M18/2.a.8)		Depositors:	T.A. Springer	
Biosafety Level:	1	Shipped:	frozen	Isotype:	IgG2a; kappa light chain
Medium & Serum:	See Propagation		Growth Properties:	suspension	
Organism:	Rattus norvegicus (B cell); Mus musculus (myeloma) (rat (B cell); mouse (myeloma))		Morphology:	lymphoblast	
Tissue:	B lymphocyte; hybridoma				
Cellular Products:	immunoglobulin; monoclonal antibody; against the beta subunit of LFA-1 and Mac-1 (CD18)				
Permits/Forms:	In addition to the MTA mentioned above, other ATCC and/or regulatory permits may be required for the transfer of this ATCC material. Anyone purchasing ATCC material is ultimately responsible for obtaining the permits. Please click here for information regarding the specific requirements for shipment to your location.				
Related Cell Culture Products					
Comments:	<p>Animals were immunized with mouse cytotoxic T cell glycoproteins. Spleen cells were fused with P3X63Ag8.653 myeloma cells. The Mac-1 antigen is a macrophage differentiation antigen associated with type three complement receptor (CR3). The LFA-1 antigen is associated with antigen specific T lymphocyte mediated cell killing. The LFA-1 and Mac-1 antigens are composed of two chains or subunits, alpha and beta. The beta chain of LFA-1 (Leukocyte Function Associated antigen) is immunologically identical to the beta chain of the Mac-1 antigen. Tested and found negative for ectromelia virus (mousepox). The line was recloned by TA Springer in 1988, and a new seed stock was created at the ATCC.</p>				
Propagation:	ATCC medium: RPMI 1640 medium with 0.05 mM 2-mercaptoethanol, 90%; fetal bovine serum, 10%				
Subculturing:	Cultures can be maintained by addition or replacement of fresh medium. Start cultures at 1 x 10 ⁵ cells/ml and do not allow cell concentration to exceed 5 x 10 ⁵ cells/ml.				
Fluid Renewal:	Every 2 to 3 days				

References:	993: Sanchez, David F, et al. Mapping of antigenic and functional epitopes on the alpha-and beta-subunits of two related mouse glycoproteins involved in cell interactions, LFA-1 and MAC-1. J. Exp. Med. 158: 586-602, 1983. PubMed: 6193226
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